

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1503.0220002	APPLICATION NO. 09/722,495
	APPLICANTS Springer <i>et al.</i>	
	FILING DATE November 28, 2000	GROUP 1647

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
CA	AA1	4,785,079	11/15/1988	Gospodarowicz <i>et al.</i>	530	399	12/10/1986
	AB1	4,902,782	02/20/1990	Gospodarowicz <i>et al.</i>	530	399	11/07/1988
	AC1	4,956,455	09/11/1990	Esch <i>et al.</i>	530	399	06/20/1985
	AD1	4,994,559	02/19/1991	Moscatelli <i>et al.</i>	530	399	01/26/1989
	AE1	5,026,839	06/25/1991	Moscatelli <i>et al.</i>	536	27	04/05/1990
	AF1	5,130,418	07/14/1992	Thompson, S. A.	530	399	05/02/1989
	AG1	5,132,408	07/21/1992	Baird <i>et al.</i>	530	399	11/14/1988
	AH1	5,136,025	08/04/1992	Scheuermann <i>et al.</i>	530	43	04/04/1990
	AI1	5,143,829	09/01/1992	Thompson <i>et al.</i>	435	69.4	03/29/1990
	AJ1	5,155,214	10/13/1992	Baird <i>et al.</i>	530	399	01/08/1990
CA	AK1	5,191,067	03/02/1993	Lappi <i>et al.</i>	530	399	04/27/1989

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
CA	AL1	EP 0 237 966 A2	09/23/1987	Europe			Yes No
	AM1	EP 0 281 822 A2	09/14/1988	Europe			Yes No
	AN1	WO 90/02800	03/22/1990	PCT			Yes No
	AO1	EP 0 363 675 A1	04/18/1990	Europe			Yes No
CA	AP1	EP 0 420 222 A1	04/03/1991	Europe			Yes No

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CA	AR	1	Ago, H. <i>et al.</i> , "Crystal Structure of Basic Fibroblast Growth Factor at 1.6 Å Resolution," <i>J. Biochem.</i> 110:360-363, Japanese Biochemical Society (1991).
CA	AS	1	Arakawa, T. <i>et al.</i> , "Characterization of a Cysteine-Free Analog of Recombinant Human Basic Fibroblast Growth Factor," <i>Biochem. Biophys. Comm.</i> 161(1):335-341, Academic Press, Inc. (1989).
CA	AT	1	Arakawa, T. <i>et al.</i> , "The Importance of Arg40 and 45 in the Mitogenic Activity and Structural Stability of Basic Fibroblast Growth Factor: Effects of Acidic Amino Acid Substitutions," <i>J. Prot. Chem.</i> 14(5):263-274, Plenum Publishing Corporation (1995).

EXAMINER C. Saoud	DATE CONSIDERED 3/18/02
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	INT. CLASS	DATE
CK	AA2	5,206,354	04/27/1993	Seddon <i>et al.</i>	536	B3.5	11/23/1990
	AB2	5,217,954	06/08/1993	Foster <i>et al.</i>	514	12	04/04/1990
	AC2	5,252,718	10/12/1993	Baird <i>et al.</i>	530	399	04/27/1992
	AD2	5,302,702	04/12/1994	Seddon <i>et al.</i>	530	399	02/26/1993
	AE2	5,310,883	05/10/1994	Seddon <i>et al.</i>	530	399	11/04/1991
	AF2	5,331,095	07/19/1994	Shadle <i>et al.</i>	530	399	04/12/1993
	AG2	5,332,804	07/26/1994	Florkiewicz <i>et al.</i>	530	399	04/16/1991
	AH2	5,348,863	09/20/1994	Monsan <i>et al.</i>	435	68.1	04/02/1992
	AI2	5,350,836	09/27/1994	Kopchick <i>et al.</i>	530	399	05/04/1992
	AJ2	5,352,589	10/04/1994	Bergonzoni <i>et al.</i>	435	69.4	06/02/1993
CK	AK2	5,360,896	11/01/1994	Senoo <i>et al.</i>	530	399	01/19/1993

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
CK	AL2	WO 91/09126	06/27/1991	PCT			Yes No
	AM2	WO 91/14785	10/03/1991	PCT			Yes No
	AN2	EP 0 510 662 A1	10/28/1992	Europe			Yes No
	A02	EP 0 281 822 B1	07/20/1994	Europe			Yes No
CK	AP2	WO 95/08630	03/30/1995	PCT			Yes No

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CK	AR	2	Basilico, C. and Moscatelli, D., "The FGF Family of Growth Factors and Oncogenes," <i>Adv. Canc. Res.</i> 59:115-165, Academic Press, Inc. (1992).
CK	AS	2	Blaber, M. <i>et al.</i> , "X-ray Crystal Structure of Human Acidic Fibroblast Growth Factor," <i>Biochemistry</i> 35(7):2086-2094, American Chemical Society (February 1996).
CK	AT	2	Bowie, J. <i>et al.</i> , "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions," <i>Science</i> 247:1306-1310, American Association for the Advancement of Science (1990).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
CA	AA3	5,371,206	12/06/1994	Seddon <i>et al.</i>	536	23.5	01/05/1994
	AB3	5,387,673	02/07/1995	Seddon <i>et al.</i>	530	399	04/26/1993
	AC3	5,439,818	08/08/1995	Fiddes <i>et al.</i>	435	240.2	12/16/1985
	AD3	5,459,250	10/17/1995	Basilico <i>et al.</i>	536	23.5	01/25/1994
	AE3	5,464,774	11/07/1995	Baird <i>et al.</i>	536	23.51	12/31/1987
	AF3	5,478,804	12/26/1995	Calabresi <i>et al.</i>	514	2	05/26/1994
	AG3	5,482,929	01/09/1996	Fukunaga <i>et al.</i>	514	12	12/23/1992
	AH3	5,491,220	02/13/1996	Seddon <i>et al.</i>	530	399	08/15/1994
	AI3	5,514,566	05/07/1996	Fiddes <i>et al.</i>	435	69.1	04/05/1995
	AJ3	5,514,652	05/07/1996	Watanuki <i>et al.</i>	514	12	10/22/1993
CA	AK3	5,576,288	11/19/1996	Lappi <i>et al.</i>	514	2	06/10/1994

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
CA	AL3	WO 96/22369	07/25/1996	PCT			Yes No
	AM3						Yes No
	AN3						Yes No
	AO3						Yes No
CA	AP3						Yes No

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CA	AR	3	Burgess, W.H. <i>et al.</i> , "Possible Dissociation of the Heparin-binding and Mitogenic Activities of Heparin-binding (Acidic Fibroblast) Growth Factor-1 from Its Receptor-binding Activities by Site-directed Mutagenesis of a Single Lysine Residue," <i>J. Cell Biol.</i> 111:2129-2138, The Rockefeller University Press (1990).
CA	AS	3	Burgess, W.H. <i>et al.</i> , "Structure-Function Studies of FGF-1: Dissociation and Partial Reconstitution of Certain of Its Biological Activities," <i>Molec. Reprod. Devel.</i> 39:56-61, Wiley-Liss, Inc. (1994).
CA	AT	3	Cheng, H. <i>et al.</i> , "Spinal Cord Repair in Adult Paraplegic Rats: Partial Restoration of Hind Limb Function," <i>Science</i> 273:510-513, American Association for the Advancement of Science (July 1996).

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W	AA4	5,604,293	02/18/1997	Fiddes <i>et al.</i>	530	399	04/01/1994
	AB4	5,612,211	03/18/1997	Wilson <i>et al.</i>	435	378	06/15/1993
	AC4	5,614,496	03/25/1997	Dunstan <i>et al.</i>	514	12	06/02/1995
W	AD4	5,656,598	08/12/1997	Dunstan <i>et al.</i>	514	12	05/31/1995
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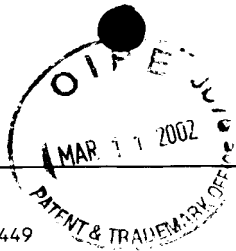
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

W	AR	4	Copeland, R.A. <i>et al.</i> , "The Structure of Human Acidic Fibroblast Growth Factor and Its Interaction with Heparin," <i>Arch. Biochem. Biophys.</i> 289(1):53-61, Academic Press, Inc. (1991).
W	AS	4	Cunningham, B.C. <i>et al.</i> , "High-Resolution Epitope Mapping of hGH-Receptor Interactions by Alanine-Scanning Mutagenesis," <i>Science</i> 244:1081-1085, American Association for the Advancement of Science (1989).
W	AT	4	Eriksson, A.E. <i>et al.</i> , "Three-dimensional structure of human basic fibroblast growth factor," <i>Proc. Natl. Acad. Sci. USA</i> 88:3441-3445, National Academy of Sciences of the USA (1991).
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	AL						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

OK	AR	5	Eriksson, A.E. <i>et al.</i> , "Refinement of the structure of human basic fibroblast growth factor at 1.6 Å resolution and analysis of presumed heparin binding sites by selenate substitution," <i>Prot. Sci.</i> 2:1274-1284, Cambridge University Press (1993).
OK	AS	5	Faham, S. <i>et al.</i> , "Heparin Structure and Interactions with Basic Fibroblast Growth Factor," <i>Science</i> 271:1116-1120, American Association for the Advancement of Science (February 1996).
OK	AT	5	Fox, G.M. <i>et al.</i> , "Production, Biological Activity, and Structure of Recombinant Basic Fibroblast Growth Factor and an Analog with Cysteine Replaced by Serine," <i>J. Biol. Chem.</i> 263(34):18452-18458, The American Society for Biochemistry and Molecular Biology, Inc. (1988).

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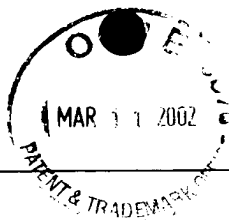
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	AM						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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CA	AR	<u>6</u>	Friedman, S. <i>et al.</i> , "Mutagenesis of the Nuclear Localization Sequence in FGF-1 Alters Protein Stability But Not Mitogenic Activity," <i>Biochem. Biophys. Res. Comm.</i> 198(3):1203-1208, Academic Press, Inc. (1994).
CA	AS	<u>6</u>	Harper, J.W. and Lobb, R.R., "Reductive Methylation of Lysine Residues in Acidic Fibroblast Growth Factor: Effect on Mitogenic Activity and Heparin Affinity," <i>Biochemistry</i> 27:671-678, American Chemical Society (1988).
CA	AT	<u>6</u>	Heath, W.F. <i>et al.</i> , "Mutations in the Heparin-Binding Domains of Human Basic Fibroblast Growth Factor Alter Its Biological Activity," <i>Biochemistry</i> 30:5608-5615, American Chemical Society (1991).
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	AL3						Yes No
	AM3						Yes No
	AN3						Yes No
	A03						Yes No
	AP3						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CK	AR	Z	Henderson, B. and Blake, S., "Therapeutic potential of cytokine manipulation," <i>TIPS</i> 13:145-152, Elsevier Science Publishers Ltd (1992).
CK	AS	Z	Imamura, T. <i>et al.</i> , "Recovery of Mitogenic Activity of a Growth Factor Mutant with a Nuclear Translocation Sequence," <i>Science</i> 249:1567-1570, American Association for the Advancement of Science (1990).
CK	AT	Z	Isacchi, A. <i>et al.</i> , "A Mutant of Basic Fibroblast Growth Factor that Has Lost the Ability to Stimulate Plasminogen Activator Synthesis in Endothelial Cells," <i>Ann. NY Acad. Sci.</i> 638:369-377, The New York Academy of Sciences (1991).

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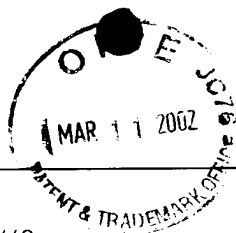
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CS	AR	8	Isacchi, A. <i>et al.</i> , "A six-amino acid deletion in basic fibroblast growth factor dissociates its mitogenic activity from its plasminogen activator-inducing capacity," <i>Proc. Natl. Acad. Sci. USA</i> 88:2628-2632, The National Academy of Sciences of the USA (1991).
CA	AS	8	Kusstatscher, S., <i>et al.</i> , "Different Molecular Forms of Basic Fibroblast Growth Factor (bFGF) Accelerate Duodenal Ulcer Healing in Rats," <i>J. Pharmacol. Exp. Ther.</i> 275:456-461, Williams & Wilkins (1995).
CA	AT	8	Li, L.Y. <i>et al.</i> , "Diminished Heparin Binding of a Basic Fibroblast Growth Factor Mutant Is Associated with Reduced Receptor Binding, Mitogenesis, Plasminogen Activator Induction, and <i>in Vitro</i> Angiogenesis," <i>Biochemistry</i> 33:10999-11007, American Chemical Society (1994).

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	AM						Yes No
	AN						Yes No
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AS	AR	2	Liszewski, K., "Companies Aim Novel Therapeutic Strategies at Dual Nature of Angiogenesis," <i>Gen Eng. News</i> , May 1, 1997 (6 pages), Mary Ann Liebert Inc. Publ.
AS	AS	2	Logan, A. and Berry, M., "Transforming growth factor- β and basic fibroblast growth factor in the injured CNS," <i>TIPS</i> 14:337-343, Elsevier Science Publishers Ltd (1993).
AS	AT	2	Martin, P., "Wound Healing-Aiming for Perfect Skin Regeneration," <i>Science</i> 276:75-81, American Association for the Advancement of Science (April 1997).

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	AO						Yes No
	AP						Yes No

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OK	AR	10	Ornitz, D.M. <i>et al.</i> , "FGF Binding and FGF Receptor Activated by Synthetic Heparan-Derived Di- and Trisaccharides," <i>Science</i> 268:432-436, American Association for the Advancement of Science (April 1995).
OK	AS	10	Pantoliano, M.W. <i>et al.</i> , "Multivalent Ligand-Receptor Binding Interactions in the Fibroblast Growth Factor System Produce a Cooperative Growth Factor and Heparin Mechanism for Receptor Dimerization," <i>Biochemistry</i> 33:10229-10248, American Chemical Society (1994).
OK	AT	10	Presta, M. <i>et al.</i> , "Structure-Function Relationship of Basic Fibroblast Growth Factor: Site-Directed Mutagenesis of a Putative Heparin-Binding and Receptor-Binding Region," <i>Biochem. Biophys. Res. Comm.</i> 185(3):1098-1107, Academic Press, Inc. (1992).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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CX	AR	11	Robinson, C.J., "Growth factors in wound healing," <i>TIBTECH</i> 10:301-302, Elsevier Science Publishers Ltd (1992).
CX	AS	11	Robson et al., "Modern Ideas and Notations Relating to Primary Structure," in <i>Introduction to Proteins and Protein Engineering</i> , p.41, Elsevier, New York, New York (1986).
CX	AT	11	SCIOS Annual Report, "Fiblast: A Special Report," 8 pages, SCIOS (1996).

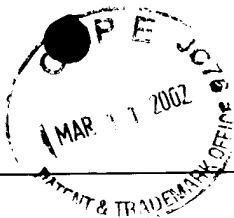
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1503.0220002APPLICATION NO.
09/722,495APPLICANTS
Springer *et al.*FILING DATE
November 28, 2000GROUP
1647

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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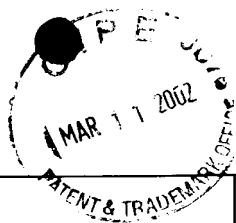
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	AL						Yes No
	AM						Yes No
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	AP						Yes No

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OK	AR	12	Seddon, A.P. <i>et al.</i> , "Engineering of Fibroblast Growth Factor: Alteration of Receptor Binding Specificity," <i>Biochemistry</i> 34:731-736, American Chemical Society (1995).
OK	AS	12	Seno, M. <i>et al.</i> , "Carboxyl-terminal structure of basic fibroblast growth factor significantly contributes to its affinity for heparin," <i>Eur. J. Biochem.</i> 188:239-245, Springer International (1990).
OK	AT	12	Slavin, J., "The Role of Cytokines in Wound Healing," <i>J. Pathol.</i> 178:5-10, John Wiley & Sons, Ltd. (January 1996).
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CA	AR	13	Springer, B.A. <i>et al.</i> , "Identification and Concerted Function of Two Receptor Binding Surfaces on Basic Fibroblast Growth Factor Required for Mitogenesis," <i>J. Biol. Chem.</i> 269(43):26879-26884, The American Society for Biochemistry and Molecular Biology, Inc. (1994).
CA	AS	13	ten Dijke, P. and Iwata, K.K., "Growth Factors for Wound Healing," <i>BioTechnology</i> 7:793-798, Nature Publishing Company (1989).
CA	AT	13	Thompson, L.D. <i>et al.</i> , "Energetic Characterization of the Basic Fibroblast Growth Factor-Heparin Interaction: Identification of the Heparin Binding Domain," <i>Biochemistry</i> 33(13):3831-3840, American Chemical Society (1994).

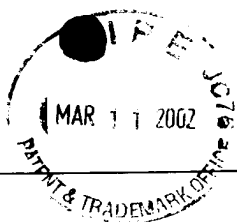
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CA	AT	14	Wong, P. <i>et al.</i> , "Analysis of Putative Heparin-binding Domains of Fibroblast Growth Factor-1," <i>J. Biol. Chem.</i> 270(43):25805-25811, The American Society for Biochemistry and Molecular Biology, Inc. (1995).
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<input checked="" type="checkbox"/>	AR	<u>15</u>	Young, W., "Spinal Cord Regeneration," <i>Science</i> 273:451, American Association for the Advancement of Science (July 1996).
<input checked="" type="checkbox"/>	AS	<u>15</u>	Zhang, J. <i>et al.</i> , "Three-dimensional structure of human basic fibroblast growth factor, a structural homolog of interleukin 1 β ," <i>Proc. Natl. Acad. Sci. USA</i> 88:3446-3450, National Academy of Sciences of the USA (1991).
<input checked="" type="checkbox"/>	AT	<u>15</u>	Zhu, X. <i>et al.</i> , "Structural studies of the binding of the anti-ulcer drug sucrose octasulfate to acidic fibroblast growth factor," <i>Structure</i> 1:27-34, Current Biology Ltd (1993).

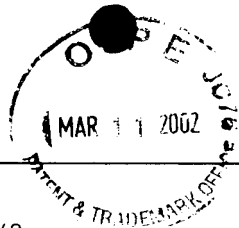
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CA	AR	16	Zhu, X., "Three-Dimensional Structures of Acidic and Basic Fibroblast Growth Factors," <i>Science</i> 251:90-93, American Association for the Advancement of Science (1991).
CA	AS	16	Zhu, H. <i>et al.</i> , "Glu-96 of Basic Fibroblast Growth Factor Is Essential for High Affinity Receptor Binding," <i>J. Biol. Chem.</i> 270(37):21869-21874, The American Society for Biochemistry and Molecular Biology, Inc. (1995).
CA	AT	16	Patent Cooperation Treaty, International Search Report for PCT/US99/30534, mailed September 1, 2000.

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